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DATE MAILED: 11/01/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,961	09/08/2003	Charles Leu		3137
25859	7590 11/01/2004		EXAMINER	
WEI TE CHUNG			LEE, GUIYOUNG	
	NTERNATIONAL, INC.		I I I	D . BED 3 W. CDED
1650 MEMOREX DRIVE			ART UNIT	PAPER NUMBER
SANTA CLARA, CA 95050			2875	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summany	10/658,961	LEU ET AL.	
Office Action Summary	Examiner	Art Unit	
	Guiyoung Lee	2875	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with t	he correspondence ad	ldress
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS cause the application to become ABANE	be timely filed  O) days will be considered timels  from the mailing date of this components  OONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on      This action is FINAL. 2b)⊠ This      Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters	•	e merits is
Disposition of Claims			
4) □ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-19 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
<ul> <li>9) The specification is objected to by the Examine</li> <li>10) The drawing(s) filed on is/are: a) accomplished an accomplished and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct</li> <li>11) The oath or declaration is objected to by the Examine</li> </ul>	epted or b) objected to by a drawing(s) be held in abeyance. ion is required if the drawing(s) i	See 37 CFR 1.85(a). is objected to. See 37 Cl	* *
	animer. Note the attached O		10-132.
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priority application from the International Bureau</li> </ul>	s have been received. s have been received in Appl rity documents have been rec	lication No	Stage
* See the attached detailed Office action for a list	of the certified copies not rec	eived.	
·			
Attachment(s)			
Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)   Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)   Paper No(s)/Mail Date 0903.		mary (PTO-413) lail Date mal Patent Application (PT0	O-152)

Application/Control Number: 10/658,961

Art Unit: 2875

#### **DETAILED ACTION**

### Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 9-15 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seki (JP 406235823A) in view of Suga et al. (US 6,445,504 B1) and Taniguchi et al. (US 6,700,634 B2).

Re claims 1, 13, 15 and 19: Seki discloses a planar surface illuminator having a light guide plate (1 in Fig. 2) with a bottom plate; a light source (5) irradiating the light guide, darkened areas of the light guide plate being formed adjacent to the light source; and a number of dot-patterns (10) formed on the bottom surface, wherein some dot-patterns positioned at the darkened areas are made of a light emitting material consisting of acryl binder and fluorescent pigment (See abstract). Seki does not disclose a plurality of point light sources. However, Taniguchi teaches a plurality of LEDs (1 in Fig. 1). It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the planar surface illuminator of Seki to include the LEDs as taught by Taniguchi in order to limit power consumption and save mounting space. Further, although Seki does disclose a light emitting material consisting of acryl binder and fluorescent

particles, he does not disclose melamine-based fluorescent particles. However, Suga teaches that the light diffusing plate is made of melamine-based acrylate (col. 3, line 63 and col. 4, line 7). It would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute Seki's acryl binder with Suga's melamine-based acrylate because Suga's melamine-based acrylate and Seki's acryl binder is equivalent material for their use as light guide material and the selection of any of these known equivalents would be within the level of ordinary skill in the art.

Re claim 9: Taniguchi teaches a size of the dot pattern in a range of 1 to 10 micrometers (col. 8, lines 36-46).

Re claims 10-11: Seki teaches that the dot-patterns are uniformly spaced on the bottom surface, and the further the dot-patterns are away from the point sources, the larger the diameter of the dot-patterns are (See Fig. 2).

Re claim 12: Taniguchi teaches that the light guide is formed by plastic molding (col. 13, lines29-30).

Re claim14: Taniguchi teaches that the point light sources are positioned at one side of the light guide plate (Fig. 1).

4. Claims 2-8 and 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seki, Taniguchi, and Suga as applied to claims 1 and 15 above, and further in view of Kaminski et al. (US 2003/0214718 A1). The teachings of Seki and Taniguchi have been discussed above. Re claim 2-8 and 16-18: Seki does not disclose the color of the fluorescent particles. However, Kaminski teaches that the diffuse reflector such as dot patterns comprises a colored element to

produce colored reflection (Paragraph 0091). Further, The colored reflection comprises green at 525 to 590 nm, red at 630 to 690 nm and yellow at 570 to 620 nm (paragraph 0094). It would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute the different color fluorescent particles as suggested by Kaminski with Seki's fluorescent particles in order to produce desired chromatic reflection color.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guiyoung Lee whose telephone number is 571-272-2374. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on 571-272-2378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**LGY** 

ALAN CARIASO PRIMARY EXAMINER